

Datasheet: VMA00933

**BATCH NUMBER 100005648**

<b>Description:</b>	MOUSE ANTI ATP6V1A
<b>Specificity:</b>	ATP6V1A
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB01/4F4
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 µl

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - Liquid

### Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-350 of human ATP6V1A
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P38606</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">523</a>    ATP6V1A    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	ATP6A1, ATP6V1A1, VPP2
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti ATP6V1A antibody</b> recognizes V-type proton ATPase catalytic subunit A, also known as ATP6A1, ATP6V1A1, and VPP2.</p> <p>ATP6V1A forms the A subunit of the V-ATPase complex, essential for maintaining the correct pH of endosomes, lysosomes, and other intracellular compartments (<a href="#">Smith et al. 2003</a>). The gene encoding ATP6V1A is widely-expressed, and inherited mutations cause cutis laxa symptoms affecting the central nervous system and conferring a risk of life-threatening cardiopulmonary complications (<a href="#">Damme et al. 2017</a>). Expression of ATP6V1A is regulated by the transcription factor YY1, which has a variety of functions and is upregulated in cervical carcinoma. Elevated expression of ATP6V1A is observed in gastric cancer, but gastric cancer patients with elevated ATP6V1A also have a better prognosis (<a href="#">Wang et al. 2017</a>).</p>
<b>Western Blotting</b>	Mouse anti ATP6V1A detects a band of approximately 72 kDa in HeLa cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00933">https://www.bio-rad-antibodies.com/SDS/VMA00933</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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